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(21)Application number : 11-275076 (71)Applicant : NIPPON ZEON CO LTD  
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## (54) NORBORNENE TYPE ADDITION COPOLYMER HAVING UNSATURATED BOND AND METHOD FOR PREPARING NORBORNENE TYPE ADDITION POLYMER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a method of addition polymerizing (a) a norbornene type monomer having a carbon–carbon unsaturated bond in addition to a norbornene ring with high activity as in the case of (b) another norbornene type monomer such as 2-norbornene, and norbornene copolymers obtained by copolymerizing the monomer (a) at any ratio.

**SOLUTION:** Norbornene type monomers are polymerized with the use of a polymerization catalyst composed of (A) a compound of a group 10 transition metal in the periodic table having an alkyl group or an aryl group and a neutral electron donative monodentate ligand and (B) a Lewis acid.

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